IT Systems Methodology

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| FAST Phases | Classic Phases | | | |
| Initiation | Analysis | Design | Implementation |
| Scope Def | X |  |  |  |
| Problem Analysis | x | X |  |  |
| Requirements Analysis |  | X |  |  |
| Logical Design |  | X |  |  |
| Decision |  |  |  |  |
| Physical Design |  |  |  |  |
| Construction Testing |  |  |  |  |
| Installation Delivery |  |  |  |  |
|  |  |  |  |  |

# Project Phases, Deliverables, Communications

## Scope definition phase

Pg 169 – Task 1.1 Identify baseline problems and opportunities (diagram in book pg 170-171)

* Deliverable: Problem statement matrix
* Impact: IS

Pg 172 – Task 1.2 Negotiate baseline scope (Team agreement)

* Impact: IS, GM, PM

~~Pg 173 – Task 1.3 Assess baseline project worthiness (cost benefit analysis)~~

Pg 173 – Task 1.4 Develop baseline schedule and budget (Mandalynn & Jon)

* Deliverable: Estimate on schedule and costs
* Impact: IS, GM(Jon), PM(Mandalyn)

Pg 173 – Task 1.5 Communicate the project plan (Mandalynn)

* All above deliverables to Mandalyn

TCO A - Given a business situation, prepare and present a written and oral statement outlining the strategic vision and tactical scope of a significant information systems project. Create a high-level project charter, problem statement, project plan and deliverable outline.

## Problem analysis phase – (Decision to use commercial application, P101, in this phase)

Pg 175 – Task 2.1 Understand the problem domain

* Deliverable: Context diagram
* Impact: IS

Pg 180 – Task 2.2 Analyze problems and opportunities

* Impact: IS

Pg 180 – Task 2.3 Analyze business process (GM to provide)

* Cause and Effect Matrix (Pg181)
* Impact: IS

~~Pg 182 – Task 2.4 Establish System Improvement Objectives – No previous metrics to measure against. Vendor may provide industry metrics~~

Pg 183 – Task 2.5 Update or Refine the project plan (mandalynn)

* Impact: IS, PM

Pg 183 – Task 2.6 Communicate findings and recommendations

* Impact: (whole team)

TCO B - Identifying and Evaluating Alternatives – Given a technical problem with alternative solutions and competing business goals; gather information necessary to evaluate the alternatives and make justifiable project recommendations.

## Requirements analysis phases

Pg 185 – Task 3.1 Identify and Express system requirements

* Deliverable: Draft of functional and non-functional requirements
* Impact: IS

Pg 188 – Task 3.2 Prioritize system requirements

* Deliverable: Requirements and priorities list
* Impact: IS, GM

RFP – to vendors

Receive proposals

Evaluate – Use tool from book

Pg 188 – Task 3.3 Update or refine the project plan

* Impact: IS, PM

Pg 189 – Task 3.4 Communicate the requirements statements

* Impact: (whole team)

~~Pg 189 – Task 3.5 Ongoing requirements management – we very small, will need to deal with this.~~

~~Project change control/process – (mandalynn)~~

## Logical design phases

Pg 191 – Task 4.1 Structure functional requirements (a)

* Deliverable: Data, Process, or object models – for each requirement
* Impact: IS

~~Pg 192 – Task 4.2 Prototype functional requirements (alternative) (b)~~

Pg 192 – Task 4.3 Validate functional requirements

* Impact: IS, GM

Pg 192 – Task 4.4 Define acceptance test cases (?)

Business rules and data rules

* Impact: IS, GM

TCO-C - Completing the Analysis and Design Phases – Given a technical problem and a set of project missions, strategies, goals and objectives, identify and outline the system analysis and design deliverables. Show how these deliverables describe "what to do", "how to do it" and how they support the subsequent project deliverables. System prototyping, rapid application development (RAD) and joint requirement development (JRD) strategies will be explored.

## Decision analysis phase

Pg 194 – Task 5.1 Identify candidate solutions

* Impact: IS

Pg 195 – Task 5.2 Analyze candidate solutions

* Impact: IS

Pg 197 – Task 5.3 Compare candidate solutions (diagram pg 196)

* Impact: IS, GM, PM

Pg 197 – Task 5.4 Update the project plan (Mandalyn)

Pg 197 – Task 5.5 Recommend a system solution

## Team obligations phase (Weeks 3-7)

Help PM to define WBS and time estimates.

Help Accounting to budget.